

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Wang et al.

SERIAL NO.:

10/671,326

GROUP NO.:

Not yet assigned

FILING DATE:

September 25, 2003

EXAMINER:

Not yet assigned

TITLE:

BIFUNCTIONAL HETEROCYCLIC COMPOUNDS AND

METHODS OF MAKING AND USING SAME

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 20th day of October, 2003.

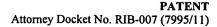
Mary E. Higdon

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are: Transmittal Form (1 pg.); Information Disclosure Statement (2 pgs.); Form PTO-1449 (3 pgs.); Copies of listed documents B1-B21 and C1-C10; and a Return Receipt Postcard.

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(0)				Serial Number		10/671,326			
	2 3 MM E	Filing Date			09/25/03				
		First Named			Wang et al.				
	TRANSMITTA	Group Art U	Jnit		Not yet assigned				
			Examiner N	ame		Not yet assigned			
	FORM		Attorney Do	ocket No.		RIB-007 (7995/11)			
						Not applicable			
			Issue Date			Not applicable			
		ENG	CLOSURES (c	heck all that apply)					
	Fee Transmittal Form		Copy of Notice Parts of Applie	e to File Missing cation		Notice of Appeal to Board of Patent Appeals and Interferences			
	☐ Check Attached☐ Copy of Fee Transmittal Form		Formal Drawin	ng(s)					
	Amendment/Response		Request For C Examination (I] Status Inquiry			
	☐ After Final	Transmittal			Ø	Return Receipt Postcard			
	☐ Affidavits/declaration(s) ☐ Letter to Official ☐ Draftsperson		Power of Attor (Revocation of	ney Prior Powers)	×	Certificate of First Class Mailing under 37 C.F.R. 1.8			
	including Drawings [Total Sheets]		Terminal Disclaimer			Certificate of Facsimile Transmission under 37 C.F.R. 1.8			
	Petition for Extension of Time			aration and Power Utility or Design		Additional Enclosure(s) (please identify below)			
⊠	Information Disclosure Statement		Small Entity S	tatement					
	Form PTO-1449		e table or computer						
	Certified Copy of Priority Document(s)		Amendment A	fter Allowance					
Sequence Listing submission Paper Copy/CD Computer Readable Copy Statement verifying identity of above			Request for Certificate of Correction Certificate of Correction (in duplicate)						
COR	RESPONDENCE ADDRESS			SIGNATURE BLOCK					
Direc	Testa, Hu High Stre 125 High Boston, M Tel. No.:	et Tower	nibeault, LLP	Date: October 20, 20 Reg. No. 38,678 Tel. No.: (617) 248- Fax No.: (617) 248-	-73 1				





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TITLE: BIFUNCTIONAL HETEROCYCLIC COMPOUNDS AND METHODS

OF MAKING AND USING SAME

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Pursuant to the Office's notice in the August 5, 2003 Official Gazette concerning the partial waiver under 37 CFR 1.98 (a)(2)(i), Applicants enclose copies of the listed foreign patent documents and publications. Applicants will provide the Office with copies of the listed U.S. patents and published U.S. patent applications upon request.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
	the requisite Statement is below, OR
	the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or

Information Disclosure Ştatement Serial No. 10/671,326 Page 2 of 2

(3)	after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND
	the requisite Statement is below, AND
	the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page <u>and</u> the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R.

 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Date: October 20, 2003

Reg. No. 38,678

Tel. No.: (617) 248-7317 Fax No.: (617) 248-7100

2692035_1

Respectfully submitted,

Duncan A. Greenhalgh Attorney for Applicants

Testa, Hurwitz, & Thibeault, LLP

High Street Tower 125 High Street

Boston, Massachusetts 02110

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: RIB-007

APPLICANT(S): Wang et al. SERIAL NO.: 10/671,326

FILING DATE: 09/25/03

GROUP: Not yet assigned

U.S. PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	3629232	12/21/71	Jones	<u>-</u>	260	210E	
	A2	4404201	09/13/83	Haskell et	al.	424	246	
	A3	4546176	10/08/85	Machida et	t al.	544	21	
	A4	5180719	01/19/93	White et al		514	192	
	A5	5232918	08/03/93	Arnould et	al.	514	202	
	A6	5281703	01/25/94	White et al	•	540	302	
	A7	5336768	08/09/94	Albrecht et	: al.	540	222	
	A8	5444051	08/22/95	Agouridas	et al.	514	29	
	A9	5527780	06/18/96	Agouridas	et al.	514	29	
	A10	5543400	08/06/96	Agouridas	et al.	514	29	
	A11	5693791	12/02/97	Truett		540	222	
	A12	5747467	05/05/98	Agouridas	et al.	514	29	
	A13	5780605	07/14/98	Or et al.		536	7.2	
	A14	5866549	02/02/99	Or et al.		514	29	
	A15	5891643	04/06/99	Fesik et al.	.,	435	7.1	
	A16	5905144	05/18/99	Truett		536	22.1	
	A17	6034069	03/07/00	Or et al.		514	29	
	A18	6274715 B1	08/14/01	Or et al.		536	7.4	
	A19	6288055 B1	09/11/01	Natarajan e	et al.	514	210.2	
	A20	6288234 B1	09/11/01	Griffin		546	190	
	A21	6355805 B1	03/12/02	Choi et al.		546	301	
	A22	6355810 B1	03/12/02	Griffin et a	1.	548	547	
	A23	6362371 B1	03/26/02	Moran et a	I.	564	365	_
	A24	6395724 B1	05/28/02	Judice et al	l.	514	183	
	A25	6420354 B1	07/16/02	Marquess o	et al.	514	183	
	A26	6437119 B1	08/20/02	Truett		540	215	
	A27	6446032 B1	09/03/02	Schimmel		703	11	

FORM PTO - 1449

EXAMINER

INFORMATION DISPLOSURE STATEMENT

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SERIAL NO.: 10/671,326 **FILING DATE:** 09/25/03

		DOCUMENT			GROUP:	Not yet	ass	igned				
		TRADEMARK	U.	S. PATENT	DOCUMI	ENTS						
EXAM INIT.		DOCUMENT NUMBER	DATE	NAME			CI	LASS	SUI	B ASS	FILING APPROI	DATE IF PRIATE
	A28	6468979 B1	10/22/02	Pellacini et	al.		514	4	29			
	A29	6479498 B1	11/12/02	Marquess et	t al.		514	4	256			
	A30	6566509 B1	05/20/03	Griffin et al		530	536		7.4			
	A31	2002/0028943 A1	03/07/02	Griffin			540	6	223			
	A32	2003/0176670 A1	09/18/03	Griffin et al	. 53			36 7.4				-
	A33	2003/0176848 A1	09/18/03	Gibson et al	l.		604 50			00		
				FOREIGN PATI	ENT DOCUME	NTS						
EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLAS	SUB FILIN				RACT	ENGLISH LANG (Y/N)
	Bl	EP 0 680 967 B1	10/14/98	EP	C07H 17	08	ĺ			NO		NO (See B2)
	B2	EP 0 680 967 B1	10/14/98	EP						YES		YES
	В3	EP 0 895 999 A1	02/10/99	EP	C07H 17	08				NO		YES
	B4	EP 1 132 392 A1	09/12/01	EP	C07H 17	08	Ì			NO		YES
	B5	WO 92/17184	10/15/92	PCT	A61K 31	675				NO		YES
	В6	WO 93/24509	12/09/93	PCT	C07H 17	08				NO		NO (See B7) (English language abstract)
	В7	WO 93/24509	12/09/93	PCT						YES		YES
	B8	WO 93/07154	04/15/93	PCT	CO7D 499	88				NO		YES
	В9	WO 94/10185	05/11/94	PCT	C07H 17	08				NO		NO (See B8) (English language abstract)
	B10	WO 94/10185	05/11/94	PCT						YES		YES
	B11	WO 95/07271	03/16/95	PCT	C07D 263	20				NO		YES
	B12	WO 96/18633	06/20/96	PCT	C07H 17	08				NO		YES
	B13	WO 97/35195	09/25/97	PCT	G01N 33	53				NO		YES
	B14	WO 98/56800	12/17/98	PCT	C07H 17	08				NO		YES
	B15	WO 99/28308	06/10/99	PCT	C07D 279	16				NO		YES

DATE CONSIDERED

FORM PTO - 1449

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		10	TRADEMIZ						
EXAM INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B16	WO 99/33839	07/08/99	PCT	C07D 501	24		NO	YES
	B17	WO 99/63937 A3	12/16/99	PCT	A61K 38	00		NO	YES
	B18	WO 00/06606	02/10/00	PCT	C07N 17	00		NO	YES
	·B19	WO 03/070173 A2	08/28/03	PCT	A61K			NO	YES
	B20	WO 03/070174 A2	08/28/03	PCT	A61K			NO	YES
	B21	WO 03/070254 A1	08/28/03	PCT	A61K 31	70		NO	YES

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM INIT.	ОТНЕ	R DOCUMENTS: (Including Author, Title, Date	te, Relevant Pages, Place of Publication)						
	Cl	Hanessian et al., "Quantamycin: A Computer-Sin Chem. Soc., 106:6114-6115 (1984)	mulated New-Generation Inhibitor of Bacterial Ribosomal Binding," J. Am						
	C2	Hecker et al., "Application of Hygromycin a Struc Medicinal Chemistry Letters, 3(2):295-298 (1993)	ucture Activity Relationships to the Antibiotic A201A," <u>Bioorganic &</u> 3)						
	СЗ	Holmes et al., "Novel Dimeric Penicillin Derived Bioorganic & Medicinal Chemistry Letters, 3(4):5	Inhibitors of HIV-1 Proteinase: Interaction with the Catalytic Asparates," 603-508 (1993)						
	C4	Rao et al., "Tight Binding of a Dimeric Derivative 119:10286-10290 (1997)	of Vancomycin with Dimeric L-Lys-D-Ala-D-Ala," J. Am Chem. Soc,						
	C5 Shuker et al., "Discovering High-Affinity Ligands for Proteins: SAR by NMR," Science, 274 (5292):								
	C6	Vince et al., "Chloramphenicol Binding Site with Chemotherapy, 8(4):439-443 (1975)	h Analogues of Chloramphenicol and Puromycin," Antimicrobial Agents and						
	C7	Wang et al., "Dimeric Aminoglycosides: Design, 57(14):1951-1956 (1997)	n, Synthesis and RNA Binding," Bioorganic & Medicinal Chemistry Letters,						
	C8	Welch et al., "An Inhibitor of Ribosomal Peptidyl 385-390 (1995)	Transferase Using Transition-State Analogy," Biochemistry, 34(2): pages						
	C9	Zemlicka et al., "Sparsophenicol: A New Syntheti 25:1123-1125 (1982)	c Hybrid Antibiotic Inhibiting Ribosomal Peptide Synthesis," J. Med. Chem.,						
	C10	Zemlicka et al., "Hybrids of Antibiotics Inhibiting 36:1239-1244 (1993)	Protein Synthesis. Synthesis and Biological Activity," J. Med. Chem.,						
EXAMII	NER		DATE CONSIDERED						